Title: COMPOSITIONS AND METHODS FOR THE MODULATION OF SPHINGOLIPID METABOLISM AND/OR SIGNALING Inventor: Julie D. Saba Express Mail No. EV336590815US Docket No. 200116.405C1

Genes
兴
hila
Drosop
Potential

236	324 343 . 149	414 428 230	501 516 246	589 606 315	641 696 384
FOUCILLIA I DI OSOPILLIA SES 240 241 255 256 270 181 195 196 210 211 225 226 240 241 255 256 270 FRSSNOYGVNLQTAE MAHTITRKHKRGNGSSSPADCGKQL LILLNPKSGSGKGRE LFQKQVAPLLTEAEV QYDLQITTHPQYAKE FRSFOTFEDNAREAD RWYRSLRWQLHRTLE EIFVAPTVDERRRY LYLLNPKSGSGDARE VFNAHVTPYLNEAEV PYDLYVTKHSNFAIE	271 285 286 300 301 315 316 330 331 345 346 360 FVRTRRDLLTRYSGI VASGDGLFYEVLNG LAFENDARRACRELP LGIIPCGSGNGLAKS VAHHCNEPYEPKPIL HATLTCMAGKSTP-FLSTRCLDAKCCV VAVGGDGLFHETVNG LLQRQDMAHVLPHLA LGIIPCGSGNGLARS IAHCYNKPVL GAALTVISGRSSPLVRSEELGRWDAL VYMSGDGLFHEVVNG LMERPDWETAIQKP- LCSLPAGSGNALAAS LNHYAGYEQVTNEDL LTNCTLLLCRRLLSP	361 375 376 390 391 405 406 420 421 435 436 450 450 409 WDVYRVELATROKHF VMYSFLSVGWGLIAD IDIESERLRSIGAQR FTLMAIKRLIGLRSY KGRVSYLLGKGKKEP PVEAARELPAESTAA MDVVRVQLQSRSLYSFLSIGWGLISD VDIESERIRMLGYQR FTYMTLYRLVNLRTY NGRISYLLTDHEVSS -THSATGYAAQRRMQ MNLLSLHTASGLRLFSVLSLAMGFIAD VDLESEKYRRLGEMR FTLGTFLRIAALRTY RGRLAYLPVGRVGSKTPASPVVVQ	451 465 466 480 481 495 496 510 511 525 526 540 GIRSSLPLNAGEFHD LPEEEEGEAVLDGEQ FADAISLDRSYY ROHADSMHSANGRRT AYYSLGGPSMRSNRS RWSISQRIEAANAEF SSRSCNTHIDMLNGP APIYHSSAEYLP-QE FADVISLETSINQSF RSRCDSMLSGGSRRS FYYSIS-ESIYHSLA DESEFAGLAAASLEN -QGPVDAHLVPLEEP VP	615 616 630 DLLN FMLNLAGTHLP1GE HLS FLYNMSSGTHLPESH ALLR LFLAMGKGRHMEY-E	705 706 720 KRF VLYNMSSEELAPINE
N CICLICS 240 241 25 GRE LFCKQVAPLLTEAE ARE VENMYVTPYLNEAE ALQ LFRSHVQPLLAEAE	330 331 AKS VAHHCNEPYEPKPII ARS IAHCYNKPYN AAS LNHYAGYEQVTNEDI	420 421 RSY KGRVSYLLGKGKKEP RTY NGRISYLLTDHEVSS RTY RGRLAYLPVGRVGSK	511 525 AYYSLGGPSMRSNRS FYYSIS-ESIYHSLA	601 615 LVIIRRGVSRHQLLN LILIRAGISRPHLLS LFYVRAGVSRAMLLR	691 705 LQHGIPVCIPVRKRF PQQMPPPEEPL
UDITITA JA 225 226 246 KROL LILLNPKSGSGKGRE KRV LVLLNPKSGSGDARE	315 316 330 KELP LGIIPCGSGNGLAKS HLA LGIIPCGSGNGLARS KRP- LCSLPAGSGNALAAS	405 406 AQR FTLWAIKRLIGLRSY YQR FTYWTLYRLYNLRTY EMR FTLGTFLRLAALRTY	496 510 511 RQHADSWHSAMSRRT AYYY RSRCOSWLSGGSRRS FYYY	586 600 601 VFFAPESRLDDGLIY LVII CHFAPKAQLNDGTIY LILI YFAAPMGRCAAGVMH LFYV	676 690 691 MTTSGQ MYPNVSTFRFGSAT LQHG MSGCVEPPPSWK PQQM
FOLGITOTATION OSOPITITA ON GGITGO 96 210 211 225 226 240 241 WHATIRKHKRGNGSSSPADCGKOL LILLNPKSGSGKGRE LFOKOVAPI WYRSLRWQLHRTLE EIFVAPTVOERRRY LYLLNPKSGSGDARE YFNMHYTPY PARSLRWQLHRTLE EIFVAPTVOERRRY LYLLNPKSGSGDARE YFNMHYTPY PARSLRWQLHRTLE EIFVAPTVOERRRY LYLLNPKGGKGKALQ LFRSHVQPL	300 301 315 Ting: Lmermoarracrelp 'Vng Llorodaahvlphla 'Vng Lmerpoaetaiokp-	390 391 405 IAD IDIESERLRSIGAQR ISD VDIESERIRMLGYQR IAD VDLESEKYRRLGEWR	481 Fadaisldrsvy roya Fadvisletsingsf rsrc	555 556 571 585 586 600 601 615 616 630 FLO MILLOSDGMICEDGD FVMVHAAYTTHLSSD VFFAPESRLDDGLIY LVIIRRGVSRHQLLN FMLNLNAGTHLPIGEDLLN FPLLESHDLG FVMMHAVYQTHLGID CHFAPKAQLNDGTIY LILIRAGISRPHLLS FLYNMSSGTHLPESHDLN FLYNMSSGTHLPESH	661 EYGPIQAEVAPGLIN VATT: FFGPLQAEVLPGIAR VAVVP YSEAVQGQVHPNYFW MVSG
FOCETION 195 196 210 TAE MAHITIRKHKREAD RAYRSLRAQLHRTLE	285 286 SGI VVASGDGLFYEVLNG KCV VAVGGDGLFHEIVNG DAL VVMSGDGLMHEVVNG	375 376 390 KHF VMYSFLSVGNGLIAD LYSFLSIGNGLISD RLFSVLSLAWGFIAD	466 481 LPEEEGEAVLOGEQ FAD, APIYHSSAEYLP-QE FAD'	556 571 MPLLSSDGWICEDGD FVWW EPLSEDQGWLVEEGE FVWW	646 660 661 SSSSOGIL VVOGERV EYGI PYDNHGIITYDGERV EFGI RKOGKGVFAVDGELM VSE
	271 FVRTRROLLTRYSGI FLSTRCLDAWCCY LVRSEELGRWDAL	361 375 MDVVRVELATROKHF MDVVRVQLQSRS MNLLSLHTASGLR	451 GIRSSLPLNAGEFHD LPEEEEGE SSRSCNTHIDM.NGP APIYHSSAI -QGPVDAHLVPLEEP VP	541 555 556 570 571 585 586 600 601 615 616 630 AERVPTGTIPPLQ MPLLSSDGWICEDGD FVMVHAAYTTHLSSD VFFAPESRLDDGLIY LVIIRRGVSRHQLLN FMLNLNAGTHLPIGE RQQNYGPASELPDLN EPLSEDQGWLVEEGE FVMMHAVYQTHLGID CHFAPKAQLNDGTIY LILIRAGISRPHLLS FLYNMSSGTHLPESHSHWTVVPDED FVLVLALLHSHLGSE MFAAPWGRCAAGVMH LFYVRAGVSRAWLLR LFLAMGKGRHWEY-E	631 645 646 660 661 675 676 690 691 705 706 720 DPFIKYVPCRAFRIE PSSSDGILVVDGERV EYGPIQAEVMPGLIN VMTTSGQ DDHYKYLPVRAFRLE PYDNHGIITYDGERV EFGPLQAEVLPGIAR VMYPNVSTFRFQSAT LQHGIPVCIPVRKRF VLYNMSSEELAPINE CPYLVYVPVVAFRLE PKDGKGVFAVDGELM VSEAVQGQVHPNYFW MYSGCVEPPPSWK PQQMPPPEEPL
1 DSK1747 2 DSK2159 3 HSPHK1	1 DSK1747 2 DSK2159 3 HSPHK1	1 DSK1747 2 DSK2159 3 HSPHK1	1 DSK1747 2 DSK2159 3 HSPHK1	1 DSK1747 2 DSK2159 3 HSPHK1	1 DSK1747 2 DSK2159 3 HSPHK1

Title: COMPOSITIONS AND METHODS FOR THE MODULATION OF SPHINGOLIPID METABOLISM AND/OR SIGNALING Inventor: Julie D. Saba Express Mail No. EV336590815US Docket No. 200116.405C1

Figure 2

Title: COMPOSITIONS AND METHODS FOR THE MODULATION OF SPHINGOLIPID METABOLISM AND/OR SIGNALING Inventor: Julie D. Saba Express Mail No. EV336590815US Docket No. 200116.405C1

Figure 3

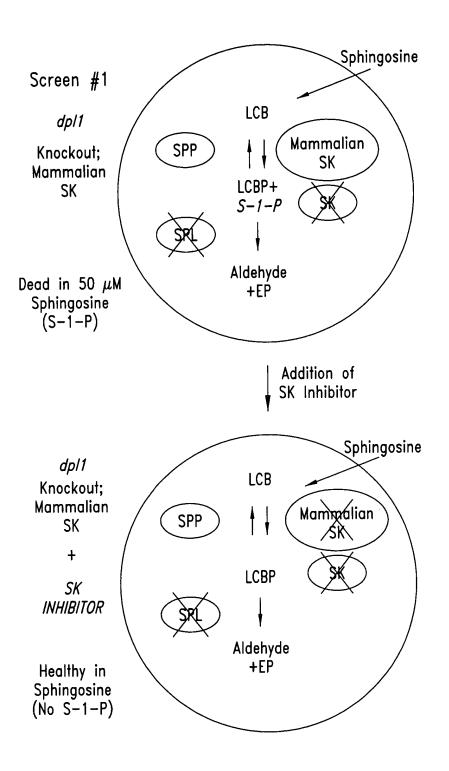


FIG. 4

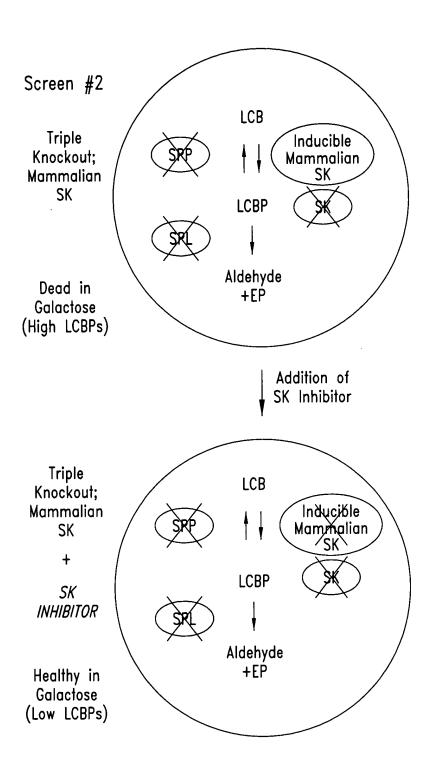


FIG. 5